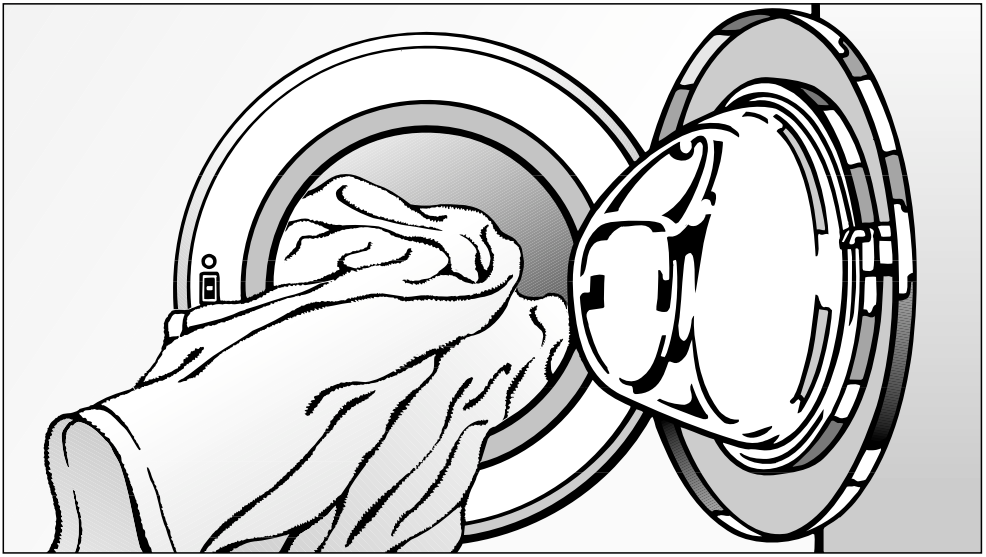
Miele
PROFESSIONAL



Operating and installation instructions for Washer-extractor WS 5427 MC 13

It is **essential** to read these operating instructions before installing or using the machine to avoid the risk of accidents or damage to the machine.

GB IRL

M.-Nr. 05 545 621

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Read the operating instructions before using this machine for the first time. They contain important information about the safety, use and maintenance of the machine. This way you will avoid the risk of accidents and damage to the machine. Keep these operating instructions in a safe place and ensure that new users are familiar with the content. Pass them on to any future owner of the machine.

Correct usage

Only use the machine to wash items which are specified by the manufacturer to be machine-washable on the wash-care label.
Any other applications may be dangerous. The manufacturer is not liable for damage resulting from improper use or operation.

This machine should not be operated by children. Supervise its use by the elderly or infirm.

Technical safety

Before setting up the machine, check it for any externally visible damage. Do not install and use a damaged machine.

Before connecting the machine, ensure that the connection data on the data plate (fusing, voltage and frequency) match the mains electricity supply. If in any doubt, consult a qualified electrician.

The electrical safety of this appliance can only be guaranteed when continuity is complete between the machine and an effective earthing system which complies with local and national regulations. It is most important that this basic safety requirement is regularly tested by a qualified electrician.
The manufacturer cannot be held responsible for the consequences of an inadequate earthing system (e.g. electric shock).

The machine is built in accordance with current safety requirements. Unauthorised repairs could result in unforeseen dangers for the user, for which the manufacturer cannot accept responsibility. Repairs should only be undertaken by a Miele approved engineer.
Ensure current is not supplied to the appliance while maintenance or repair work is being carried out.

The machine is only completely isolated from the electricity supply when:

– it is switched off at the wall socket and the plug is withdrawn, or
– it is switched off at the mains, or
– the mains fuse is withdrawn.

The best materials are used in the manufacture of this machine, and every care is taken to check all parts. However, with time, deterioration of parts can occur, especially with such components as hoses, giving rise to leaks. This should be borne in mind if operating the machine without supervision. Check the hoses regularly for signs of wear, and change in good time, to avoid leaks and subsequent damage.

Faulty components must only be replaced by genuine Miele original spare parts. Only when these parts are fitted can the safety standards of the machine be guaranteed.

In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the guarantee.

Use

Do not install the machine in rooms where temperatures below freezing may occur. Frozen hoses may burst under pressure.The reliability of the electronic control unit may be impaired at temperatures below freezing point.

Before using the machine for the first time, check that the transit fitting at the rear of the machine has been removed (see section on "Installation"). During spinning, a transit fitting which is still in place may result in damage to both the machine and adjacent furniture or appliances.

Avoid contact of stainless steel surfaces (front, lid, casing) with liquid cleaning and disinfecting agents which contain chlorine or sodium hypochlorite. These agents can have a corrosive effect on stainless steel. Aggressive vapours containing chlorine bleach can also be corrosive. Do not store open containers of these agents near the machine.

Turn off the stopcock if the machine is to be left for any length of time (e.g. holiday), especially if there is no floor drain (gully) in the immediate vicinity.

Flooding danger
If hooking the drain hose into a wash basin, check that the water can drain off quickly enough to prevent the sink from overflowing.
Make sure the drain hose is secure, so that the force of the water flowing out of the hose does not dislodge it. Otherwise this will result in flooding.

Take care to ensure that foreign objects (e.g. nails, pins, coins, paper clips) do not find their way into the machine with the washing. These may damage components of the machine (e.g. suds container, drum), which in turn can result in damage to the washing.

If the correct amount of detergent is dispensed, the machine should not need to be descaled. If, however, you do wish to descale the machine only use proprietary non-corrosive descaling agents and strictly observe the instructions on the packaging. If in doubt contact the Miele Customer Service Dept. or your Miele Dealer.

Textiles which have been pre-treated in solvent based cleaning agents must be thoroughly rinsed in clean water before being washed in the machine.

Never use solvent based cleaning agents in this machine, as this may result in damage to component parts and create toxic fumes. Such detergents also pose a fire and explosion hazard.

Only use dyes specified by the manufacturer as being suitable for use in a washing machine. Always observe the manufacturer's instructions carefully.

Colour run and dye removers may contain sulphur compounds which cause damage such as corrosion. Do not use these products in this machine.

If washing at very high temperatures remember that the porthole glass will be hot . Do not let children touch it during a hot wash programme.

Always make sure the drum is stationary before reaching in to remove washing. Reaching into a moving drum is extremely dangerous.

Accessories

Accessory parts may only be fitted when expressly approved by Miele. If other parts are used, guarantee, performance and product liability claims may be invalidated.

Disposal of your old machine

Before discarding an old machine unplug it. Render the plug useless. Cut off the cable directly behind the appliance to prevent misuse. This should be done by a competent person.

Caring for our environment

Disposal of the packing material

The transport and protective packing has been selected from materials which are environmentally friendly for disposal and can normally be recycled.

Ensure that any plastic wrappings, bags etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation!

Rather than just throwing these materials away, please ensure they are offered for recycling.

Disposal of your old machine

Old machines contain materials which can be recycled. Please contact your dealer, your local waste collection centre or scrap merchant about potential recycling schemes.

Ensure that the machine presents no danger to children while being stored for disposal. See the appropriate advice in the "Warning and safety instructions".

Economy tips

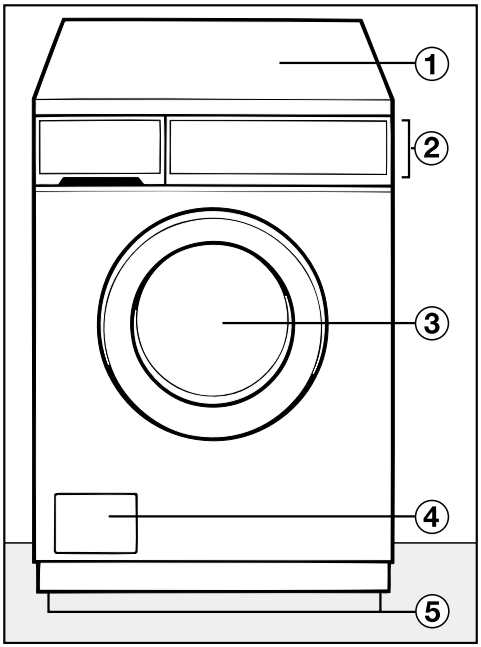
To help you wash most economically, remember the following tips:

– Always wash with the maximum laundry load specified for each programme. This uses the energy to the best advantage.

– Only use the correct amount of detergent required as recommended by the manufacturer on the detergent package.

– If laundry is not heavily soiled, select a lower temperature setting than indicated on the laundry care label. Use the "Short" programme for laundry that just needs freshening up, or is only very lightly soiled.

Front view



① Machine lid

② Control panel
Detergent dispenser

③ Drum door

④ Access panel for fluff filter, drain pump and emergency door release

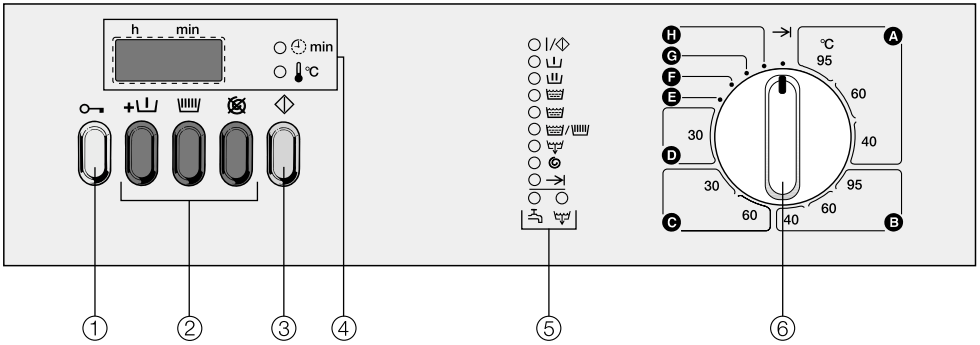
⑤ Height adjustable feet

Use

This washer-extractor is particularly suitable for use in guest houses, hair dressing salons, nursing and residential homes etc., where considerable amounts of soiled laundry are handled.

The drain valve version of the machine (AV) has a sluice programme with thermal disinfection for use in healthcare establishments.

Control panel



① Door button

Opens the drum door and releases any additional option buttons which have been pushed in.

② Additional option buttons

+ With Pre-wash
Can be selected with programmes
Ⓐ, Ⓑ, Ⓒ, Ⓔ

Starch
Can be selected with programmes
Ⓐ, Ⓑ, Ⓔ, Ⓕ

No final spin
Can be selected with programmes
Ⓐ, Ⓑ, Ⓒ, Ⓓ, Ⓔ, Ⓕ

③ Start button

Starts the programme

④ Multi function display and indicator lights

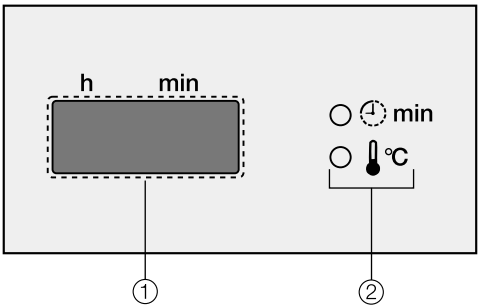
⑤ Programme sequence indicator lights

I/	On / Start
	Pre-wash
	Main wash
	Rinse
	Rinse
/	Rinse / Starch
	Drain
	Final spin
	End
	Water inlet / Drain

⑥ Programme selector

Ⓐ	Cottons
Ⓑ	Minimum iron
Ⓒ	Delicates / Synthetics
Ⓓ	Woollens
Ⓔ	Short
Ⓕ	Sluice or Separate rinse (depending on model)
Ⓖ	Separate spin
Ⓗ	Separate drain

Multi function display



① Display

② Indicator lights for

– Temperature °C

  After a programme has started the actual suds temperature is displayed in 5°C steps until the temperature set for the main wash is reached.

  The Temperature °C indicator lights up.

– Time left min

  Once the temperature set for the main wash has been reached the time left for the programme to run shows in the display in hours and minutes.

  The Time left min indicator lights up.

  The time left counts down in one minute intervals.

Important: the machine must be correctly installed and connected to the electricity and water supplies in accordance with national and local safety regulations.

Check that the transit fitting at the rear of the machine has been removed.

See "Installation", "Electrical connection" and "Plumbing" at the end of this booklet.

Flushing out the machine

Any residual lubricants and water from testing still in the machine should be flushed out as follows:

❶ Run the first wash programme **without** laundry.

❷ Add a little detergent to compartment II .

❸ Turn the programme selector to the Ⓐ Cottons 60°C programme.

❹ Press the ◇ Start button.

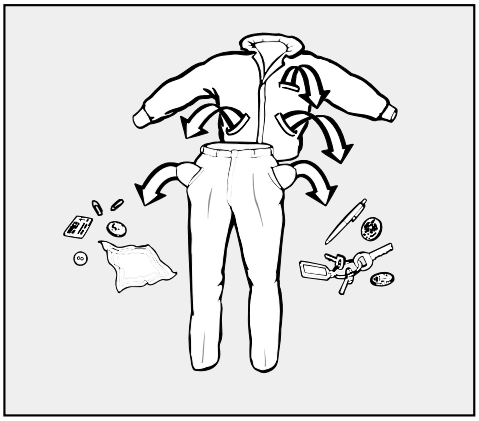
On completion of the programme turn the programme selector back to the →| End position.

Brief instructions

For brief instructions follows steps (❶,❷,❸ ,...).

Before washing

❶ Sort the laundry.



■ Empty all pockets.

Foreign objects (e.g. nails, coins, paper clips, etc.) can cause damage to garments and components in the machine.

Most garments have a textile care label in the collar or side seam. Sort the laundry by care label symbols. See "Textile care symbols" for an explanation of the symbols.

Only wash items stated by the manufacturer to be machine washable on the care label.

Dark textiles often contain excess dye and should be washed separately several times before being included in a mixed load.

Delicate textiles should be washed separately in a delicates programme (use a washing bag where appropriate).

Only wash textiles made from wool or wool mixtures if they are declared as being suitable for machine washing on the textile care label.

■ Pre-treating the washing.

Badly soiled areas, e.g. collars and cuffs, and water soluble stains can be pre-treated with bar soap, liquid detergent or detergent mixed into a solution or paste.

With particularly stubborn stains ask your dry cleaner for advice.

Do not use solvent-based cleaning agents in this machine.

– With curtains:
Remove lead weights and strips or place in a laundry bag.

– Bras:
Ensure any underwiring is securely sewn in. If not remove it.

– Knitted garments, trousers and jeans, T-shirts and sweat shirts:
Turn inside out if recommended by the manufacturer.

– Close any zips, fasten hooks and eyes etc. before washing.

– Fasten duvet covers to prevent smaller items rolling up inside them.

❷ Open the drum door.

❸ Load the drum.

Unfold the laundry and load loosely in the drum. To achieve best results it is advisable to make up mixed loads consisting of both large and small items. This improves the washing effect and helps distribute the load evenly during spinning.

Overloading causes creasing and reduces cleaning efficiency.

Do not exceed the following maximum loads:

Cottons . . . . . 6.0 kg

Minimum iron . . . . . 3.0 kg

Delicates / Synthetics . . . . . 1.5 kg

Woollens . . . . . 2.0 kg

Short . . . . . 3.0 kg

❹ Close the drum door.

Make sure that no garments are caught between the drum door and the seal.

❺ Add detergent and fabric conditioner or liquid starch if required.

See "Detergent" for further information.

❻ Open the stopcock.

To start the programme

❼ Turn the programme selector to the required programme (See "Programme chart").

❽ Select additional option if required.

■ Press the additional option button required (see "Programme chart").

The additional option can be deselected by pressing the button again.

Coin-box / time counter

❾ If your machine is fitted with a Coin-box / time counter:

- Insert coins / tokens.
- Press the ◇ Start button.

Failing to follow these instructions will result in coins or tokens being "swallowed".

Coins will also be lost if after inserting the coins / tokens and before pressing the ◇ Start button:

– the door is opened.

– the programme selector is turned beyond the →| End position to another programme.

– a programme is interrupted for more than 20 seconds in a machine operating with a coin time counter.

Coins and tokens should be emptied on a regular basis to ensure the coin box does not get jammed full.

❿ Press the ◇ Start button.

The programme starts.

After washing

⓫ Turn the programme selector to →| End.

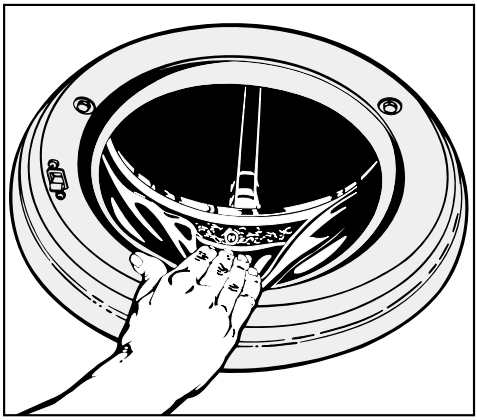
⓬ Close the stopcocks.

⓭ Press the ⚷ door button.

⓮ Remove the laundry.

Only remove laundry from the machine once the drum has stopped turning. Reaching into a moving drum is extremely dangerous and could result in injury.

Make sure the drum is empty, otherwise when the machine is next used, these items may become damaged (e.g. shrink) or cause other laundry to discolour.



⓯ Check the folds in the door seal for any small articles such as buttons or other foreign objects which might be lodged there.

To change a programme

Programmes Ⓐ, Ⓑ, Ⓒ, Ⓓ, Ⓔ can be changed at any time as long as the programme sequence allows for this.

- Turn the programme selector to the required programme. The new programme will continue from the same stage that the previously selected programme was at.

Except:
If the programme selector was turned past the →I End position, in which case the previous programme would be cancelled and the new programme would have to be started afresh.

The previous programme would also be cancelled if the programme selector was moved from or to the following:

– Ⓕ Sluice or Separate rinse (depending on model)
– Ⓖ Separate spin
– Ⓗ Separate drain

When using a coin box / time counter the programme is locked after 3 minutes and no more changes are possible.

To cancel a programme

- Turn the programme selector to the →I End position.
  The programme sequence indicator lights flash through the other programme stages until the →I End position is reached.

To omit a programme stage

- Turn the programme selector to →I End.

As soon as the programme sequence light for the stage at which the programme should continue starts flashing:

- Turn the programme selector back to the appropriate programme **within 3 seconds**.

To repeat a programme stage

Pre-requisite:
A programme stage must have finished before it can be repeated:

- Turn the programme selector to →I End.

When →I End lights up in the sequence display:

- Select the programme required.
- Press the ◇ Start button.
- After approx. 5 seconds, turn the programme selector to →I End again.

Once the indicator light of the programme stage to be repeated starts flashing:

- Turn the programme selector to the appropriate programme **within 3 seconds**.

Textile care symbols

Washing

 Handwash

 Do not wash

 Dry clean

Do not dry clean

 Suitable for chlorine bleaching

Not suitable for chlorine bleaching

 Cottons 95°C

 Cottons 60°C

Cottons 40°C

 Minimum iron 95°C

 Minimum iron 60°C

Minimum iron 40°C

 Delicates/Synthetics

 Machine washable Woollens

The significance of the bar beneath the wash tub:

 no bar,
normal (maximum) agitation, eg Cottons or Minimum iron programme

 bar,
reduced overall action, eg Minimum iron or Delicates programme

broken bar,
much reduced (minimum) agitation, Woollens programme

Tumble dry

 At normal temperature

 At the lower temperature

 Do not tumble dry

Ironing

 Hot iron

 Medium hot iron

 Cool iron

 Do not iron

Machine washable woollens

Use the woollens programme only for items bearing a "machine washable woollens" care label.

All modern detergents produced for automatic washing machines are suitable, including liquid, compact (concentrated), and special application detergents.

Use dispensing aids, e.g. balls, if these are supplied with the detergent.

Woollens and knitwear containing wool mixtures should be washed using a detergent specifically designed for washing woollens.

Instructions for use and recommended amounts are given on the detergent packaging.

The right amount to dispense will depend on the following:

– The quantity of laundry
– The soiling level of the laundry

  Lightly soiled
  No visible dirt or stains. Possibly slight body odour.

  Normally soiled
  Visibly dirty and/or just a few slight stains.

  Heavily soiled
  Stains and soiling clearly visible.

– The water hardness level in the area
  If you do not know the hardness level contact your local water authority who will be able to advise you.

See "Problem solving guide" for advice on how to deal with textiles heavily soiled with oil or grease.

Water hardness

Hardness range	Water	mmol/l	German scale °d
I	soft	0 - 1.3	0 - 7
II	medium	1.3 - 2.5	7 - 14
III	hard	2.5 - 3.8	14 - 21
IV	very hard	over 3.8	over 21

It is important to dispense the correct amount, because...

...too little detergent results in:

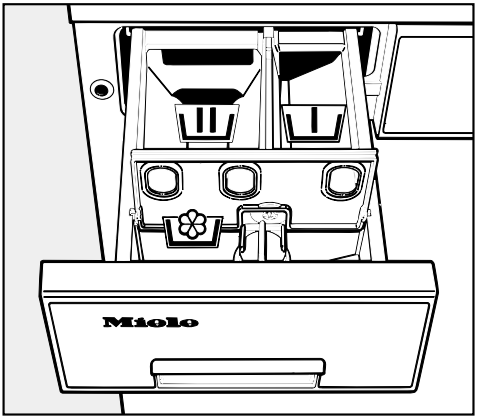
– Laundry not getting properly clean and with time it may become grey and hard to the touch.
– Greasy particles clinging to the laundry.
– Limescale building up on heater elements.

...too much detergent results in:

– Excessive foam.
– Low level of agitation.
– Poor wash, rinse and spin results.
– A burden to the environment.

Detergent

Adding detergent



- Open the detergent dispenser drawer and add detergent, fabric conditioner and starch to the correct compartment as follows:

I = Detergent for the pre-wash (if this option has been selected)

II = Detergent for the main wash

III = Fabric conditioner, texturisers or liquid starch

Water softeners

A water softener can be used to cut down on the use of detergents in water hardness ranges II - IV. Dispense according to the amount specified on the packaging. First add detergent and then the water softener. Dispense the detergent as required for soft water.

Washing with several components

If you wash using several components (e.g. special application detergents), dispense the agents into compartment II in the following order:

1. Detergent
2. Water softener
3. Stain removers

This way the agents are distributed more evenly.

Fabric conditioners, texturisers and liquid starch

Fabric conditioners make garments soft and fluffy to handle and help prevent static cling when tumble drying.

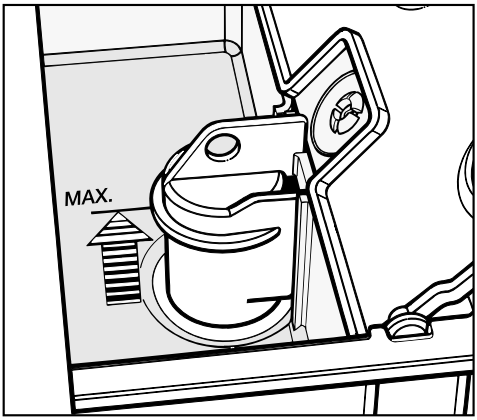
Texturisers are synthetic starch formulations which stiffen items of laundry, e.g. shirts, tablecloths and bed linen.

Starch stiffens and gives body to items of laundry, e.g. shirts, tablecloths and bed linen.

- Dispense according to the manufacturer's instructions.

Automatic dispensing of fabric conditioner, texturiser or liquid starch

- Open the lid to compartment ❀.



- Add the fabric conditioner, texturiser or liquid starch. **Do not exceed the maximum level mark.**
- Close the compartment lid.
- Push in the dispenser drawer.

The conditioner or liquid starch is automatically dispensed in the last rinse. At the end of the programme a small amount of water remains in compartment ❀.

If starching frequently, clean the dispenser compartment and especially the siphon tube and conditioner channel on a regular basis. See "Cleaning and care - Cleaning the detergent dispenser drawer".

Manually adding liquid or powder starch during a programme

- Prepare the starch solution as stated on the packet.
- Select the programme required and also push in the "Starch" button. The programme and the "time left" indicator will pause before the last rinse.

  The "Starch" indicator light comes on.
- Add the starch formulation to compartment I.
- Press and release the "Starch" button to continue the programme.

"⊗ No final spin" can be selected to keep creasing to a minimum. The water is drained away, and the load can be taken dripping wet from the drum.

Programmes

Programme chart

Programme	Fabric type	Temperature	max. rpm
Ⓐ **Cottons**	Cottons and linen fabrics, e.g. bed linen, table linen, towelling, jeans, T-shirts, underwear, nappies.	95°C - 40°C	1250
Ⓑ **Minimum iron**	Textiles made with synthetic, mixed fibres, or minimum iron cottons, e.g. shirts, blouses, workwear, table linen	95°C - 40°C	900
Ⓒ **Delicates / Synthetics**	Textiles made with acrylics, acetate and triacetate, as well as 100% cotton shirts and blouses and other delicate garments.	60°C - 30°C	600
	Machine washable curtains.	30°C	600
Ⓓ **Woollens**	Woollens or wool blend fabrics which have a textile care label stating that they are machine washable.	30°C	1250
Ⓔ **Short**	Very lightly soiled fabrics, which can be washed in the Cottons programme.	40°C	1250
Ⓕ **Sluice or separate rinse (depending on model)**	The separate rinse programme is suitable for articles which have been washed by hand and only need to be rinsed in the machine. The Sluice programme is for heavily soiled cottons and linens.		1250
Ⓖ **Separate spin**	For spinning garments which have been hand washed. These must be suitable for spinning in a machine.		1250
Ⓗ **Separate drain**	For laundry which is to be taken out of the drum dripping wet before the end of a programme.		

Additional options

+ "With pre-wash"

For heavily soiled and stained textiles.

max. load	Additional opitons	Notes
6 kg	– With pre-wash – Starch – No final spin	For heavily soiled laundry press the "With pre-wash " button. For dark coloured fabrics use a liquid detergent.
3 kg	– With pre-wash – Starch – No final spin	For heavily soiled laundry press the "With pre-wash " button
1.5 kg	– With pre-wash – No final spin	Use the woollens programme for any textiles which contain wool.
Load loosely in the drum filling no more than $^1/_3$ full	– With pre-wash – No final spin	Dust in curtains usually makes using a programme with pre-wash advisable.
2.0 kg	– No final spin	Use liquid detergent for machine washable woollens
3 kg	– With pre-wash – Starch – No final spin	Use less powder (as for a half load)
6 kg	* See "Programme sequence" for details on the Sluice prog. The separate rinse programme is suitable in certain circumstances where an extra rinse might be required (turn the programme selector to "Separate rinse" after the last rinse has taken place).	
6 kg		

"Starch"

For freshly washed textiles such as table cloths, napkins, uniforms etc.

"No final spin"

For laundry which is not to be spun but taken from the drum dripping wet.

Programme sequence

The programme sequences outlined below are based on the basic programme with a full load. Additional options which can be selected have not been taken into account.

The programme sequence indicator lights show the stage the programme has reached.

Ⓐ Cottons

Main wash
Water level: low
Rinses
Water level: medium
No. of rinses
- 3 with a max. load
- 2 with a partial load

Final spin: max. 1250 rpm

Ⓑ Minimum iron

Main wash
Water level: low
Rinses
Water level: medium
No. of rinses: 3
Final spin: max. 900 rpm

Ⓒ Delicates / Synthetics

Main wash
Water level: high
Rinses
Water level: high
No. of rinses: 3
Final spin: max. 600 rpm

Ⓓ Woollens

Main wash
Water level: low
Rinses
Water level: low
No. of rinses: 2
Final spin: max. 1250 rpm
Reduced drum agitation.

Ⓔ Short 40°C

Main wash
Water level: low
Rinses
Water level: medium
No. of rinses: 2
Final spin: max. 1250 rpm

During programme selection the nominal temperature for that programme shows in the display and the temperature and start indicator lights come on.

Ⓕ Sluice or separate rinse (depending on model)

Separate rinse

This is suitable for rinsing textiles which have been hand washed and only require rinsing. It can also be used when an additional rinse might be needed after a programme has run.

Sluice programme

The sluice programme is only available on drain valve versions of the machine.

It is suitable for heavily soiled cotton and linen items.

For good results it is advisable to wash smaller loads, e.g. 4 kg in this programme.

Add detergent to the pre-wash and main wash compartments and add fabric conditioner to compartment .

Select Ⓕ

The Sluice programme begins, consisting of:

- Cold water sluice cycles (high water levels, then drained)
- Pre-wash up to 65ºC
- Main wash at above 71ºC, held for 10 minutes
- Rinses
- Drain
- Spin

Once the programme commences the door cannot be opened until completion of the whole programme, in full compliance with DHSS requirements.

For the same reason options for change available with other programmes during a cycle are excluded.

Additional programmable functions

It is possible to have additional programmable functions and / or programme sequence changes carried out by a Miele Service Dealer or Service Engineer.

Any changes to the standard machine version must be noted on a card left with the machine as a record for any subsequent servicing work.

Disconnect the machine from the mains electricity supply and withdraw the plug from the socket prior to cleaning the machine.

Cleaning the machine

- Clean the casing with a mild non-abrasive detergent or soap and water. Wipe dry with a soft cloth.
- Clean the control panel with a damp cloth and wipe dry with a soft cloth.
- The drum and any other stainless steel components can be cleaned using a suitable proprietary stainless-steel cleaning agent. Follow the manufacturer's instructions on the packaging.

Do not use abrasive cleaning agents, disinfecting agents or solvents.
These can cause considerable damage to the machine because of the chemicals they contain.

Avoid contact of stainless steel surfaces (front, lid, casing) with liquid cleaning and disinfecting agents which contain chlorine or sodium hypochlorite. These agents can have a corrosive effect on stainless steel. Aggressive vapours containing chlorine bleach can also be corrosive. Do not store open containers of these agents near the machine.

Extra cleaning

If you wash mainly with low temperatures it is a good idea to carry out a hot wash approx. every six weeks. This will help prevent deposits and unpleasant smells building up in the machine which can occur when washing is mainly done at low temperatures. If you have no reason to wash occasionally at this high temperature, then run a Cottons 95ºC programme with detergent but no laundry at regular intervals.

Cleaning the drainage system

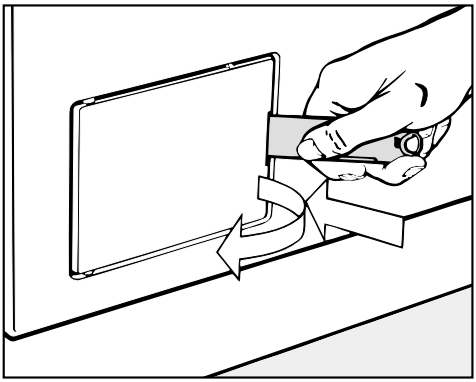
Check the fluff filter, initially after 3 - 4 washes to ascertain how often it is likely to require cleaning.

Under normal conditions approx. 2 litres of water will drain out of the machine when the fluff filter is removed.

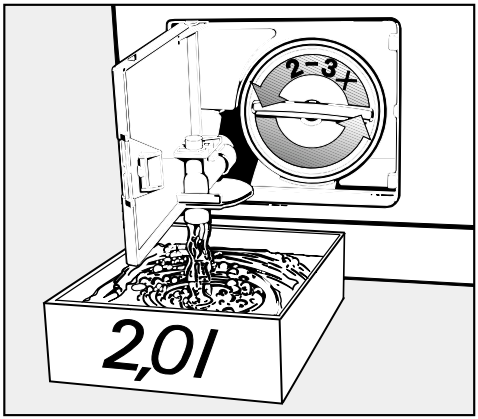
However, if the drain outlet is blocked, more water will be retained in the machine **(max. 30 litres).**

Caution: if laundry has been washed at a high temperature, water draining out of the machine will still be hot. Danger of scalding or burning.

- Switch the machine off (either open the door or switch off at the mains and withdraw the plug).



- Open the drain access flap.
- Place a suitable container (2 litres) underneath the drain fixture.

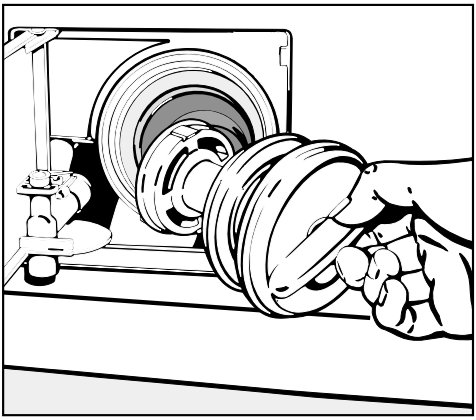


- Turn the fluff filter lid round 2-3 times. Do **not** take it right out.
  Approx. 2 litres of water will drain out.

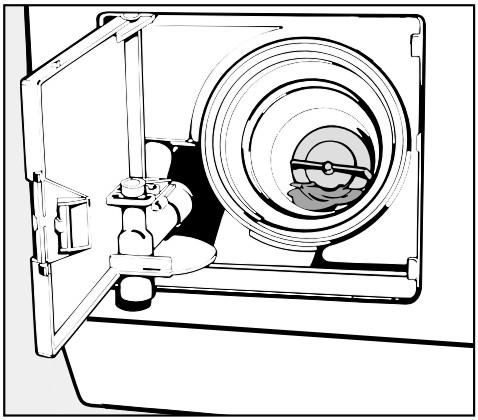
If there is a blockage more water than this will drain out and the container will need to be emptied several times.

To stop the flow of water:

- Secure the fluff filter back into position.
- Empty the container and repeat the process until all the water has been emptied



- Once the flow of water ceases, remove the fluff filter completely and clean it.
- Remove any foreign objects (buttons, coins etc.) and fluff.



- Turn the impeller by hand to check that it is free to rotate.
  Any foreign object causing an obstruction must be removed.
- Clean the inside of fluff filter housing.

Remove any deposits of limescale and detergent or foreign objects from the thread of the filter housing and filter unit.

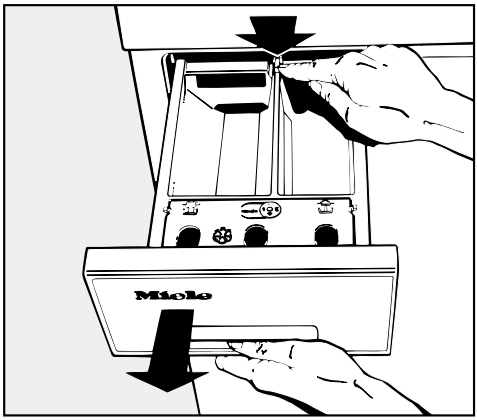
- Put the fluff filter back in place and **secure**.

Make sure the fluff filter is securely tightened. Otherwise there is a danger of water leakage during use.

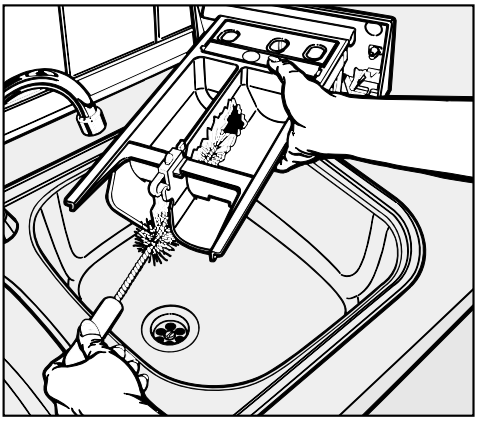
Machines with a drain valve do not require this cleaning process to be carried out.

Cleaning the detergent dispenser drawer

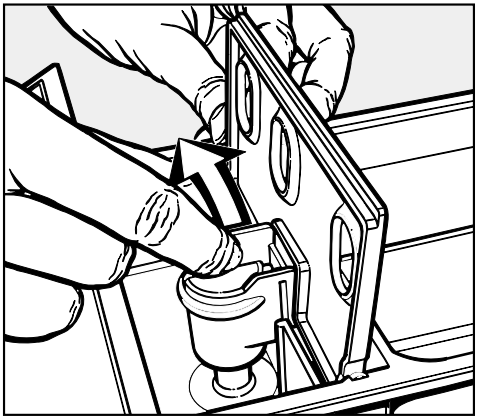
Remove detergent residues regularly.



- Pull out the detergent dispenser drawer until a resistance is felt. Press down the red release catch and at the same time pull the drawer right out of the machine.



- Clean the detergent dispenser compartments and the fabric conditioner compartment with warm water.



- Remove the siphon from compartment and rinse under warm running water.
- Then clean the tube that it sits over using warm water.
- Replace the siphon securely.

Cleaning the filters in the water inlet

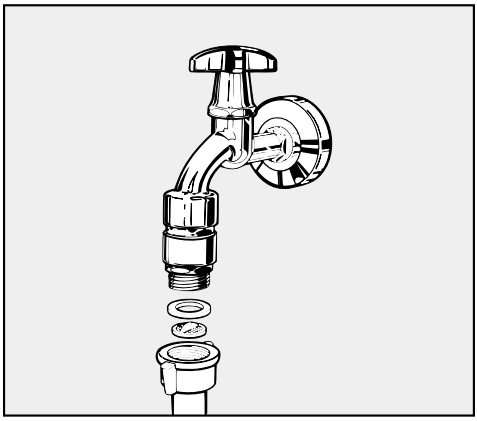
The machine has the following filters to protect the inlet valves:

– in the free end of any water inlet hose

– in the water inlet valve(s) for connecting the hose(s) to the machine.

To clean the filter in the inlet hose:

■ Turn off the stopcock.



■ Carefuly unscrew the knurled coupling connecting the inlet hose to the check valve which is attached to the stopcock (see "Plumbing").

■ Remove the rubber seal from the recess.

■ Using pointed pliers, take hold of the plastic filter bar, remove the filter and clean.

■ Put the filter and seal back in the reverse order and reconnect the hose to the check valve. Turn on the stopcock and check the connection is watertight.

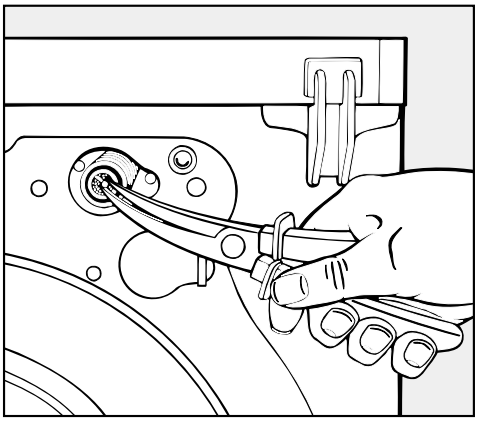
The filters in the inlet hose should be checked and cleaned approx. every 6 months.

Inspect the inlet hose as it is subjected to high pressure while the machine is in operation. The hose should be replaced if there is any sign of damage such as stress cracks in the surface.

If replacing the inlet hose only use a hose tested to withstand a pressure of at least 70 bar. Miele original hoses are tested to this standard.

To clean the filter in the water inlet valve:

- Using pliers, carefully loosen the ribbed plastic nut on the inlet valve, and unscrew.



- Using pointed pliers withdraw the plastic filter by the bar (see illustration).
- Clean the plastic filter.
- Put back in the reverse order.

Both filters - one in the pressure hose union and one in the water inlet valve **must** always be replaced after being cleaned.

Problem solving guide

With the help of the following notes minor faults in the performance of the appliance, some of which may result from incorrect operation, can be put right without contacting the Service Department.

Repair work to electrical machines should only be carried out by a suitably qualified engineer in accordance with local and national safety regulations. Unauthorised repairs could be dangerous.

Fault	Possible cause	Remedy
The I/◇ On/Start indicator light does not light up. The programme does not start.	There is no power supply to the machine.	Check that – the door is properly closed. – the plug is correctly inserted in the socket and the mains electricity supply is switched on. – the fuse or circuit breaker has not tripped.
The 🚰 check light flashes, although the programme has finished as usual.	The water inlet is restricted.	– Open the stopcock fully. – Check the inlet hoses for kinks. – The water pressure is too low
	The filters in the inlet hoses are blocked.	– Clean the filters (see section "Cleaning the filters in the water inlet"). The indicator light goes out when the programme selector is turned to the →I End position.

Fault	Possible cause	Remedy
The check light flashes, the →| End indicator light is on, but the laundry in the machine has not been washed.	The water inlet is blocked.	– Turn the programme selector to →| End. – Open the stopcock(s). – Select a programme. – Press the ◇ Start button. If little or no water is taken in during the next programme, the water pressure may be too low. If it is adequate there may be a technical fault. In this case, call the Miele Service Dept.
The indicator light is flashing.	The drainage system is blocked.	Check whether – the drainage system is blocked, See "Cleaning the drainage system" in "Cleaning and Care".
The programme sequence indicator light Pre-Wash is flashing.	There is a fault.	Start the programme again. If the indicator light flashes again, call the Miele Service Dept.
The programme sequence indicator light Main wash flashes during or at the end of a programme.	There is a fault.	If the indicator light flashes again when the next programme is run, call the Miele Service Dept.
The programme sequence indicator light Rinse 1 or Rinse 2 flashes.	There is a fault.	Start the programme again. If the indicator light flashes again, call the Miele Service Dept.

Problem solving guide

Fault	Possible cause	Remedy
Despite adequate water supply pressure the machine takes a long time to fill.	The filters in the water inlet hoses may be clogged.	Clean the filters (see "Cleaning and care" - "Cleaning the filters in the water inlet").
Large amounts of unused detergent remain in the dispenser.	The water supply pressure is too low.	– Clean the filters (see "Cleaning and care" - "Cleaning the filters in the water inlet"). – Check if the water flow through the stopcock is 5 litres in 15 seconds.
	Washing powder becomes viscous when used together with a water softener.	In future, pour washing powder into the detergent dispenser before adding water softener.
Fabric conditioner is not completely dispensed or too much water remains in the ❀ compartment.	The dispenser drawer was opened while fabric conditioner was being flushed in.	
	The siphon is either incorrectly positioned or clogged.	Clean the siphon, (see "Cleaning and care" - "Cleaning the detergent dispenser").
Laundry washed with liquid detergent is not cleaned.	Liquid detergents do not contain any bleaching agents. They do not remove fruit, coffee and tea stains.	– Use a general purpose washing machine powder containing a bleaching agent. – Pour stain removers into compartment III of the detergent dispenser and liquid detergent into a dispenser ball. – Never put stain removers and liquid detergent together in the dispenser drawer.

Fault	Possible cause	Remedy
There are white residues which look like powder detergent on dark coloured laundry.	The detergent contained compounds (zeolites) to aid water softening which are not soluble in water. These have ended up on the laundry.	– Try and brush off the residues with a soft brush once the laundry is dry. – Use a liquid detergent to wash dark coloured textiles. Liquid detergents usually contain no zeolites.
Grey greasy particles cling to washed laundry.	Insufficient amounts of detergent were used to break down the particles of grease in heavily soiled laundry.	– Add more detergent. – Before washing the next load run a COTTONS 95°C programme with powder detergent but without a load.
Textiles have particularly greasy soiling.		– Select a programme with pre-wash. Use liquid detergent for the pre-wash. – In the main wash use ordinary powder detergent. The use of heavy-duty detergent is recommended in the main wash for very heavily soiled work clothing. Consult detergent producers.

Problem solving guide

Fault	Possible cause	Remedy
The laundry is either not spun at all or not spun satisfactorily.	The "No final spin" ⊗ button was pushed in.	
	The machine was not able to distribute the laundry load evenly. To protect the machine, laundry was either only spun at a reduced speed or not at all.	Always make up mixed loads consisting of large and small items.
	Large items which tangle or roll up in the drum (e.g. bath mats) can cause an imbalance during the spin cycle.	For safety reasons, the machine does not spin if this is the case. Attempts to build up spin speed are repeated, however, until the time allocated to spinning has expired.
		Check whether – the drainage system is clogged. Clean as described in "Cleaning and care" - "Cleaning the drainage system".
The machine shakes during the spin cycle.	The most likely cause is that the four machine feet are not resting securely on the floor.	Level the machine (see "Installation" - "Levelling the machine").
	Weak floorboards not only lead to excessive noise but also to shaking during the spin cycle .	See "Installation" - "Installation surface.

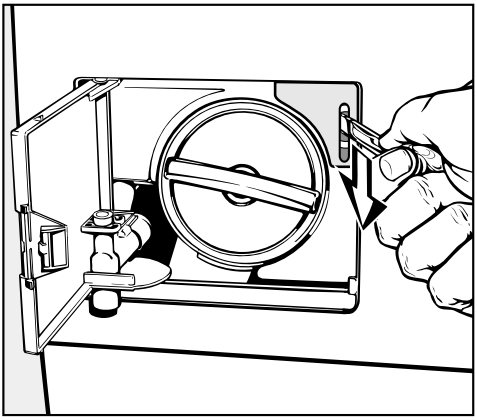
Opening the drum door in the event of a power failure

Drain pump version:

- Turn the programme selector to →| End.

Always make sure that the drum is stationary before reaching into the machine to remove laundry. Reaching into a moving drum is extremely dangerous and could cause injury.

- Open the access panel to the drainage system and drain off any water (see "Cleaning and care" - "Cleaning the drainage system").

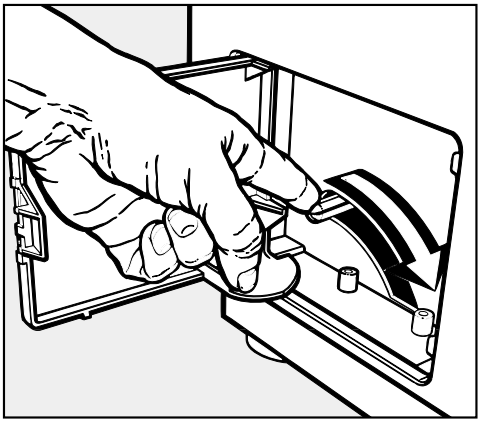


- Use a spoon handle to pull the emergency release downwards (see arrow). The door will then open.

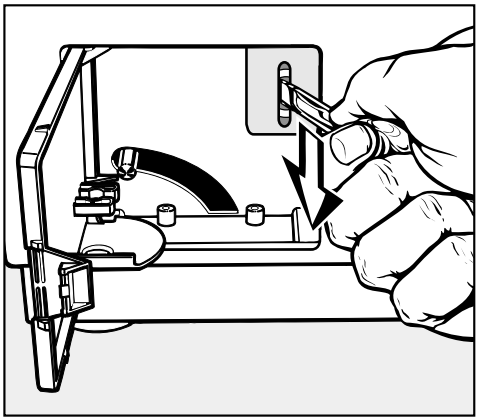
Drain valve version:

- Turn the programme selector to →| End.
- Open the access panel to the drainage system and drain off any water (see "Cleaning and Care" - "Cleaning the drainage system").

Always make sure that the drum is stationary before reaching into the machine to remove laundry. Reaching into a moving drum is extremely dangerous and could cause injury.



- Push the emergency drain lever downwards (see illustration), and hold until no more water runs out.



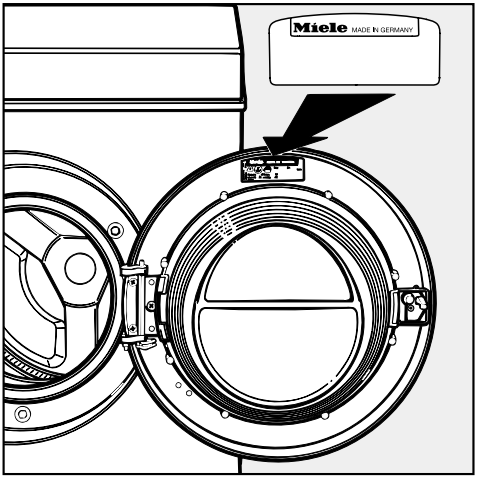
- Use a spoon handle to pull the emergency release downwards (see arrow). The door will then open.

In the event of any faults which you cannot remedy yourself please contact

– Your Miele dealer or

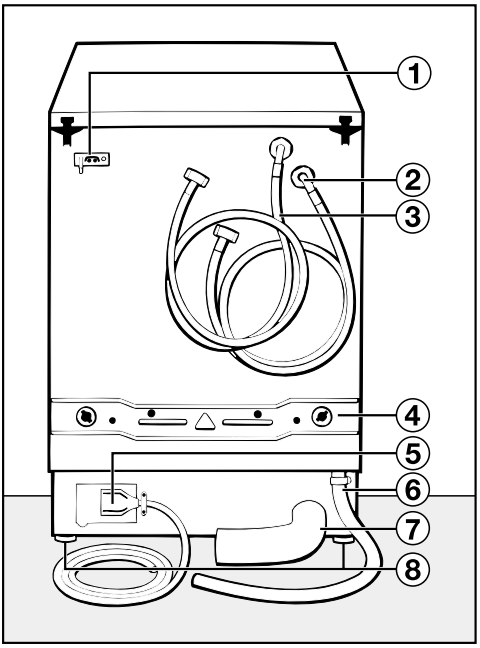
– Your nearest Miele Service Department (see back cover for the address).

When contacting the Service Department, please quote the model and serial number of your machine, both of which are shown on the data plate visible at the top inside of the door above the porthole glass when the door is open.



Please note that telepone calls may be monitored and recorded to improve our service.

View from rear



① Cable entry for extra equipment

② Inlet hose (cold water)

③ Inlet hose (hot water)

④ Transit fitting (remove before commissioning)

⑤ Supply power cable

Drain pump or drain valve (as ordered)

⑥ Drain hose (for drain pump)

⑦ Drain hose (for drain valve)

⑧ Height adjustable feet

Installation surface

A concrete floor is the most suitable surface for a washing machine, being far less prone to vibration during the spin cycle than wooden floorboards or a carpeted surface.

Please note the following points:

- The machine must be level and securely positioned.

Do not install the machine near or directly above an open gully or floor drain. Moisture from these can penetrate the machine and damage the electric components.

- To avoid vibrations during spinning the machine should not be installed on soft floor coverings.

If installing on a wooden floor joist:

- We recommend a plywoood base (at least 70 x 60 x 3 cm).
  The base should span several joists and be bolted to the joists and not only to the floorboards. Check for the presence of pipes and cables first.

If possible, install the machine in a corner, as this is usually the most stable part of the floor.

If the machine is installed on a raised plinth, it **must** be secured using the butt straps supplied with the machine.
Follow the installation instructions supplied.

Installation

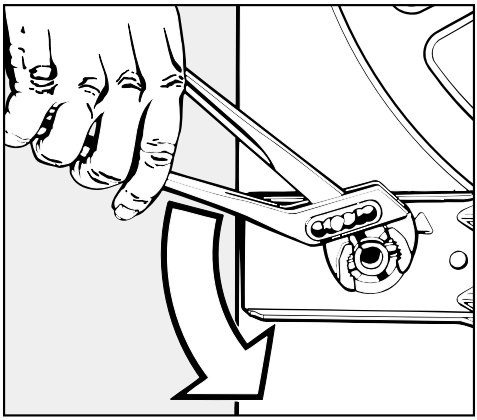
Lift the machine from its packaging base and move it to its site.

Please note:

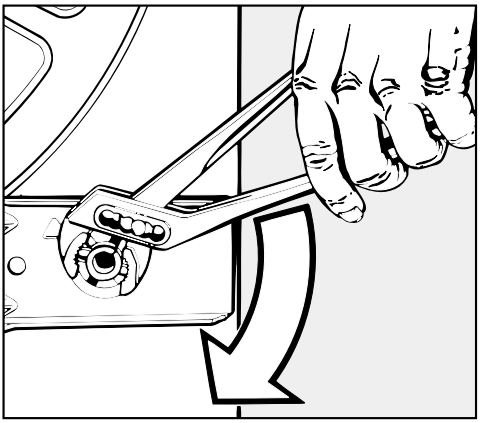
- Do not lift the machine by the drum door.

Ensure that the machine feet and the floor area are dry to prevent the machine from slipping during the spin cycle.

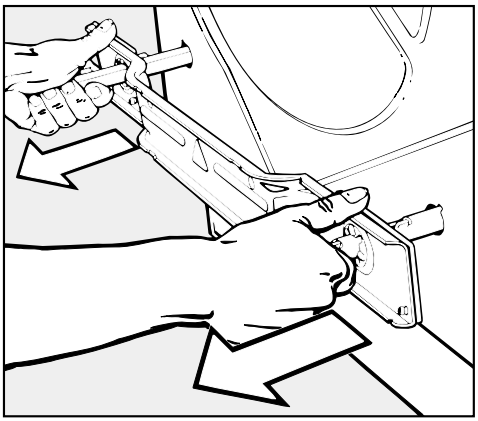
Removing the transit fitting



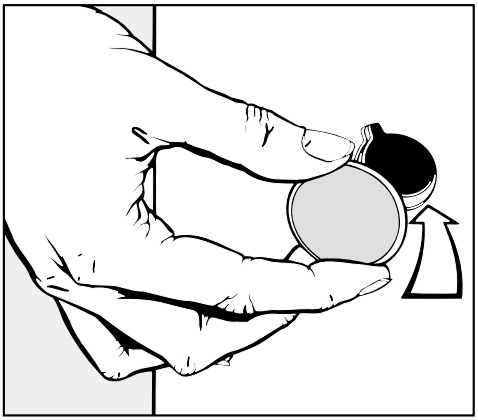
❶ Turn the left-hand transit bar 90°.



❷ Turn the right-hand transit bar 90°.



❸ Withdraw the two bars together with the support plate.



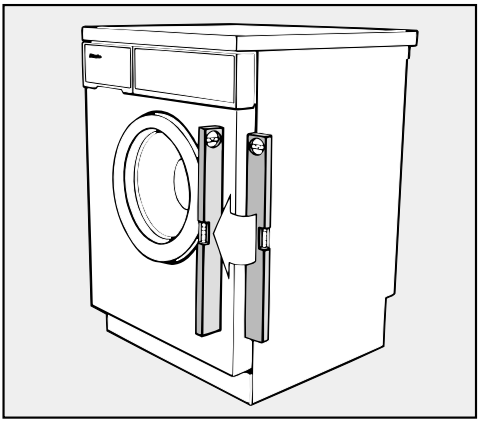
❹ Plug the holes with the plastic caps supplied.

The machine must not be moved without the transit fitting in place.

The transit fitting should be stored in a safe place for future use. It must be re-fitted if the machine is to be moved again (e.g. when moving house). Re-fitting is carried out by reversing the procedure.

Levelling the machine

The machine must stand perfectly level on all four feet to ensure safe and proper operation.



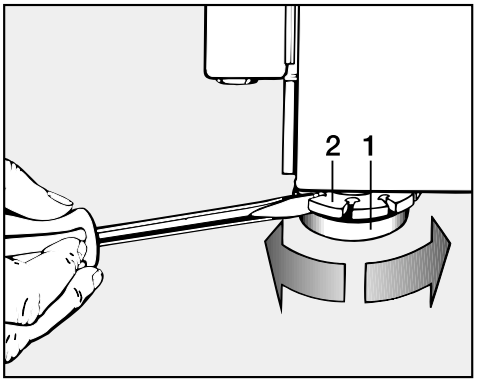
The four adjustable feet are used to level the machine. All four feet are screwed in when the machine is delivered.

Screwing out and adjusting the feet.

- Gently tip the machine and prop it up using a solid wood wedge for example, to ensure stability.

Make sure the machine does not slip as this could cause injury.

- Using a screwdriver loosen foot **1** together with counter nut **2** by turning it anti-clockwise, and unscrew to the required height.
- Put the machine back on all four feet.
- Use a spirit level to check the machine is standing level.

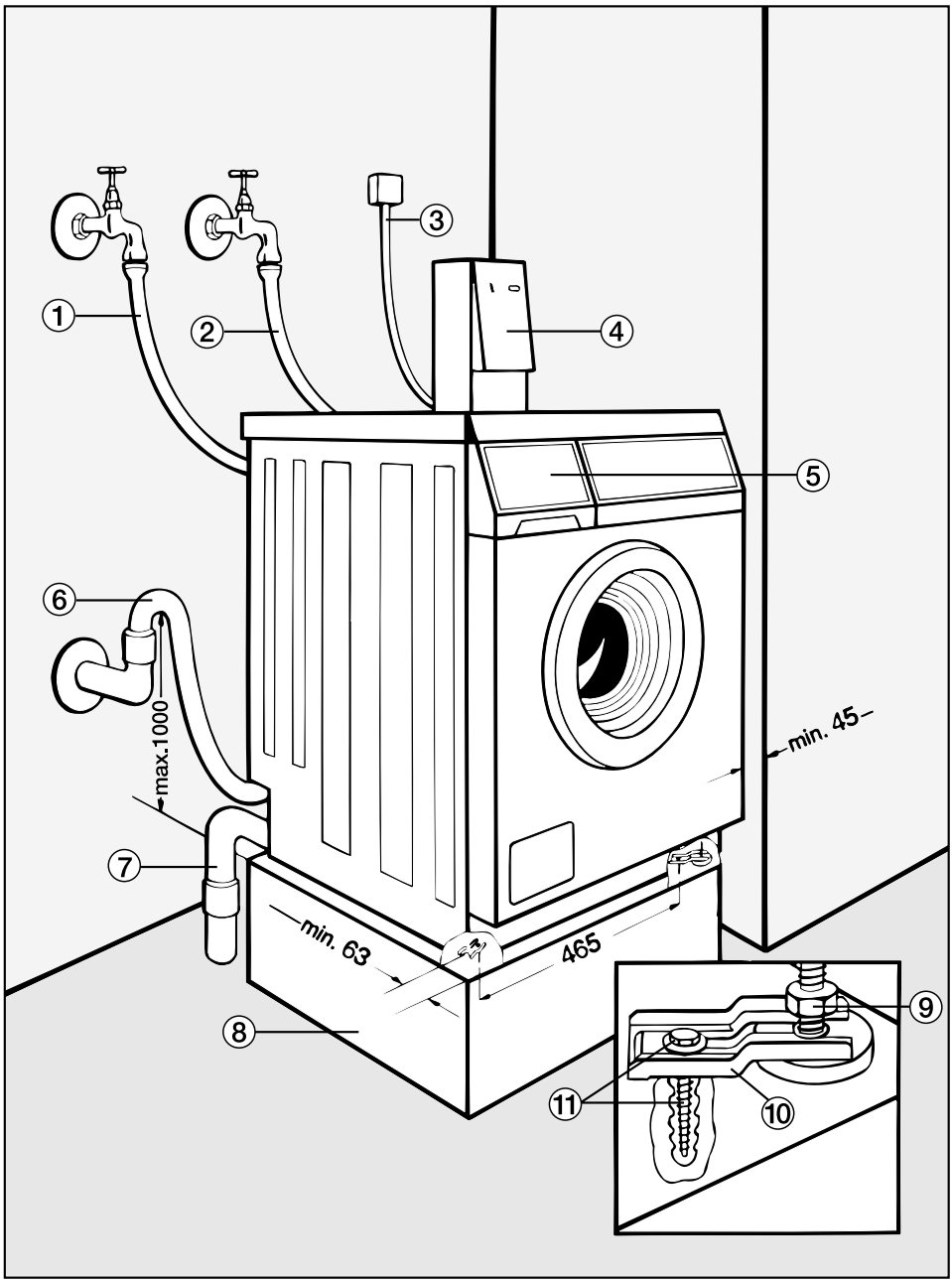


- Holding foot **1** securely with a pipe wrench use a screwdriver to turn counternut **2** in a clockwise direction until it is held firmly up against the housing.

All four counternuts must be tightened firmly up against the housing. Please also check this for the feet which did not need adjustment. Otherwise there is the danger of the machine moving about.

Installation

Installation on a raised plinth



① Cold water inlet hose
- blue stripes - (see "Plumbing")

② Hot water inlet hose
- red stripes - (see "Plumbing")

③ Electrical connection
(see "Electrical connnection U.K.")

④ Coin mechanism (optional)

⑤ Small panel with text

⑥ Drain hose for drain pump
(LP) version (see "Plumbing")

⑦ Drain hose for drain valve
(AV) version (see "Plumbing")

⑧ Concrete plinth (to be supplied on site), if not available a steel plinth* can be purchased from Miele, (ensure there is secure connection to the floor).

⑨ Hexagonal M 10 nut

⑩ Butt strap

⑪ Screw, washer and plug 8 x 40

When installing on a suspended floor, use the appropriate fixing kit (plugs and screws).

Washer and Dryer stack

A Miele tumble dryer can be stacked with the washing machine. A stacking kit* is necessary.

Coin mechanism / Time counter

This machine can be equipped with a coin / token box.*

Separate installation and wiring instructions are supplied with the coin box.

A wall bracket is required for a washer dryer stack.

The machine can also be connected to an already existing time counter. A special connection cable * is required for this.

The re-programming of the machine then required must only be carried out by an authorised Miele Service Dealer or the Miele Service Dept.

The machine must not be used in conjunction with equipment designed to automatically switch the machine off (e.g. Timer switches).

All items marked * are available to order from your Miele Dealer or from the Miele Professional Sales Dept.

Electrical connection U.K.

All electrical work must be carried out by a suitably qualified and competent person, in strict accordance with national and local safety regulations.

Ensure power is not supplied to the machine while installation work is being carried out.

The voltage, rated load and fuse rating are given on the data plate. Please ensure these match the site mains supply.

This washer-extractor is supplied as standard for connection to either:

– 230 - 240 V / 1 N / 50 Hz,
30 A fuse rating
single phase supply for connection to a suitable isolator.

or:

– 400 V / 3N / 50 Hz
3 x 15 A fuse rating
for connection to a suitable isolator.

Connection of single and three phase machines:

– 230 - 240 V / 1 N / 50 Hz
(30 amp fuse rating U.K.)

– 400 V / 3 N / 50 Hz
(3 x 15 amp fuse rating U.K.)

Connection should be made via a suitable isolator which complies with national and local safety regulations, and the on/off switch should be easily accessible for servicing work.

For extra safety it is advisable to install a residual current device (RCD) with a trip current of 30 mA (in accordance with DIN VDE 0664, VDE 0100 Section 739).

When switched off there must be an all-pole contact gap of 3 mm in the isolator switch (including switch, fuses and relays acc. to VDE 0660).

Important

For **400 V 3 phase** connection, the machine is supplied with a **5-core** cable in the following colours:

Black = live

Black = live

Brown = live

Blue = neutral

Green and yellow = earth.

WARNING
THIS APPLIANCE MUST BE EARTHED

Electrical connection Ireland

All electrical work must be carried out by a suitably qualified and competent person, in strict accordance with national and local safety regulations.

This washer-extractor is supplied as standard for connection to 230 V 50 Hz single phase supply, and is not convertible. Fuse rating 25A.

Connection should be made via a suitable isolator which complies with national and local regulations and the on/off switch should be easily accessible for servicing work.

For extra safety it is advisable to install a residual current device (RCD) with a trip current of 30 mA (in accordance with DIN VDE 0664, VDE 0100 Section 739).

When switched off there must be an all-pole contact gap of 3 mm in the isolator switch (including switch, fuses and relays acc. to VDE 0660).

The voltage, rated load and fuse rating are given on the data plate. Please ensure these match the site mains supply.

WARNING
THIS APPLIANCE MUST BE EARTHED

Plumbing

This machine is approved for all UK applications as suitable for category 5. Product is listed in the WRAS regulations advisory scheme directory and is suitable for direct connection to mains drinking water. No special plumbing arrangements e.g. break tanks are required.

A Water Council approved check valve is supplied in the accessories pack provided with this machine. It should be fitted in between the stopcock(s) and the water inlet hose(s).

The machine should be connected to the water supply in accordance with local and national safety regulations.

Connection to the water supply should be carried out by a qualified plumber and should incorporate a stopcock with a 3/4" thread.

The machine is supplied as standard with two hoses, for connection to a hot and cold water supply.

Connection to cold water supply

The approx. 1.5 m long $^3/_8$" pressure hose (blue stripes) should be connected to the check valve on the stopcock via the $^3/_4$" threaded union.
This hose is **not** suitable for connection to a hot water supply.

Make sure that the washer sits correctly in the union.

The connection points are subject to water pressure. Turn on the stopcock slowly and check for leaks. Correct the positioning of the washers and screw unions if appropriate.

If replacing the inlet hose only use a hose tested to withstand pressure of at least 70 bar. This also applies to all fittings used. Miele original parts are tested to this standard.

Longer hoses 2.5 or 4.0 m in length are available as optional extras.

The pressure hose and solenoid inlet valve are designed for a water flow pressure of between 1 and 10 bar. At higher water pressures it is essential to fit a reducer valve.

There is a minimum flow pressure of 1 bar if 5 litres of water flow into a suitable container in 15 seconds.

Connection to hot water supply

To keep electricity consumption costs down this machine can be connected to a **(ring) piped hot water supply**. The maximum temperature must not exceed 70°C.

It is not economical to run it from an individual hot water supply if it is not in continuous use, as the water in the supply pipes cools down and more energy would be required to reheat the water.

For operational reasons the machine must not be connected to hot water only.

For hot water connection the same conditions apply as for cold water connection.

If the machine is **not** installed for hot water connection:

- Both inlet hoses can be connected to cold water using an adapter piece, without the machine being reprogrammed.

or

- unscrew inlet hose (red stripes)
- plug the inlet connection with the cap supplied.
- The machine will have to be reprogrammed by an authorised service dealer.

Connection to drainage

Machines with a drain pump

The machine drains via a drain pump with a max. delivery head of 1 metre. The 1.5 metre long drain hose must not be kinked as this would restrict drainage.
The hook in the end of the drain hose can be turned or taken off if required.

The drain hose may be connected as follows:

– Direct into a sink (drain pump version LP).
Hook the hose over the edge of the sink and secure . Make sure that the water can flow away freely to avoid flooding and to prevent water from being sucked back into the machine.

– Connected securely to a plastic drain pipe with a rubber seal. There is no need to use a non-return valve.

– Directed securely into a standpipe, (seal the hose into the pipe to avoid flooding in case of the drainpipe being blocked).

– Directly into a floor drain (gully).

The drain hose can be extended to 5 metres.
The accessories required can be purchased from the Miele Spare Parts Dept.

For draining the water away with a delivery head over 1 metre (and up to a max. of 1.8 metres) a 2nd "Duo-drain pump" can be connected. Contact your Miele Dealer or the Professional Sales Dept.

Drain valve version

A motorised drain valve is used to drain the machine. The DN 70 angle hose provided enables the machine to be drained via an on-site gully (with odour trap).

Height	85 cm
Width	59.5 cm
Depth	71.5 cm
Depth with door open	107 cm
Weight	114 kg
max. floor load	2778 Newton (278 kg)
Capacity	6 kg dry laundry
Connected load	see data plate
Rated load	see data plate
Fuse rating	see data plate
Water flow pressure min.	1 bar
Static water pressure max.	10 bar
Max. delivery head (drain pump version LP) max.	1 m
Noise level during spin (sound pressure according to German 3. GSGV)	< 70 dB(A)
Test certificates awarded	Radio/tv suppression, VDE

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